

GenScore version 4.5
Copyright (c) 1993-2000 CompuGen Ltd.

CompuGen nucleic search using SW model
Run on: March 14, 2002, 14:36:15 Search time: 37:22 seconds
(without alignments)
104,665 Million cell updates/sec

Title: US-9-786-009-1
Perfect score: 42
Sequence: 1 full database search.....sequences returned: 43

Scoring tables:
IDENTITY: NIP
Gapop 10.0, Gapext 1.0

Overlaid: 90621 sites, 42866219 positions

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 2
Maximum DB seq length: 2000000000

Post processing: Minimum Match 0%
Listed first 45 summaries

Database:

N_Geneseq_1101:*

1: /SIDS/7...
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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Prod. No. | Score | Match | Length | DB ID | Description |
|-----------|-------|-------|--------|---------|-----------------------|
| 1 | 42 | 74.4 | 603 | AA15622 | Nucleotide sequence |
| 2 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 3 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 4 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 5 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 6 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 7 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 8 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 9 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 10 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |
| 11 | 21.8 | 50.7 | 489 | AA28729 | S. pombe, nuclear map |

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|-----|------|------|-----|---------|------------------|
| 12 | 20.1 | 47.4 | 397 | AA15714 | Human cDNA, cDNA |
| 13 | 20.4 | 47.4 | 652 | AA15714 | Human cDNA, cDNA |
| 14 | 20.4 | 47.4 | 652 | AA15714 | Human cDNA, cDNA |
| 15 | 20.2 | 47.0 | 6.2 | AA15714 | Human cDNA, cDNA |
| 16 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 17 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 18 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 19 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
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| 95 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 96 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 97 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 98 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 99 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |
| 100 | 20 | 46.5 | 609 | AA15714 | Human cDNA, cDNA |

[illegible]

ANZB7-2004 standard; DNA; 48,449 bp

104 05 JUN 2000 (1118Z) (UTC)
XX
XX
XX 5. Value of the molecular biosynthetic gene pIKAL1, SEQ ID NO: 4

KM hypodermal and ectodermal crop production; absorb.; dis.

[illegible][illegible]

Figure 1 is a schematic diagram of the experimental setup. It shows a subject seated at a table, looking at a screen. A camera is positioned above the screen. A target is shown on the screen. A coordinate system is defined with X and Y axes. A scale bar is provided.

1.  **Introduction**
 2.  **Background**
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 21.  **Appendix**
 22.  **Index**
 23.  **Glossary**
 24.  **Summary**
 25.  **Abstract**
 26.  **Keywords**

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X

[illegible]

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
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 11. *Chlorophyll k* (Chl *k*)
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 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
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 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
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 132. *Chlorophyll ayz* (Chl *ayz*)
 133.

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the insertion relates to an isolated and partitioned nucleic acid segment in a compartmentalised biosynthetic site cluster, a treatment of its

| | | | |
|----|-----------------------------------------------------------------------------|----|-----------------------------------------------------------------------------|
| CC | biochemical active catalyst, where the nucleic acid sequence is not | CC | biochemical active catalyst, where the nucleic acid sequence is not |
| CC | derived from the cyto gene cluster of Saccharopolyspora erythraea or | CC | derived from the cyto gene cluster of Saccharopolyspora erythraea or |
| CC | streptomyces antibiotic. The invention also relates to a macrolide | CC | streptomyces antibiotic. The invention also relates to a macrolide |
| CC | biosynthetic gene cluster or fragments thereof. The macrolide | CC | biosynthetic gene cluster or fragments thereof. The macrolide |
| CC | biosynthetic gene cluster encodes proteins which synthesize macbimycin | CC | biosynthetic gene cluster encodes proteins which synthesize macbimycin |
| CC | flavonoid, neomycin, nactamycin or a combination of these | CC | flavonoid, neomycin, nactamycin or a combination of these |
| CC | compounds. Recombinant or augmented cells comprising the dosamine | CC | compounds. Recombinant or augmented cells comprising the dosamine |
| CC | production of biosynthetic gene clusters are useful for the | CC | production of biosynthetic gene clusters are useful for the |
| CC | production of biologically active macrolides. The macrolide biosynthetic | CC | production of biologically active macrolides. The macrolide biosynthetic |
| CC | proteins are useful for synthesis of actinomycin, pikomycin, | CC | proteins are useful for synthesis of actinomycin, pikomycin, |
| CC | neomethymycin and nardomycin. The aforementioned combination of polypeptide | CC | neomethymycin and nardomycin. The aforementioned combination of polypeptide |
| CC | synthetases may be useful to prepare novel antibiotics and | CC | synthetases may be useful to prepare novel antibiotics and |
| CC | polyhydroxybutyrate. They may be used in the preparation of the | CC | polyhydroxybutyrate. They may be used in the preparation of the |
| CC | recombinant host cells are useful as biopolymers, e.g., in packaging or | CC | recombinant host cells are useful as biopolymers, e.g., in packaging or |
| CC | biomedical applications, to enhance pH membrane synthetases or to prepare | CC | biomedical applications, to enhance pH membrane synthetases or to prepare |
| CC | biologically active agents, such as chemotherapeutics, | CC | biologically active agents, such as chemotherapeutics, |
| CC | immunosuppressants, agents to treat asthma, chronic obstructive pulmonary | CC | immunosuppressants, agents to treat asthma, chronic obstructive pulmonary |
| CC | disease as well as other diseases involving respiratory inflammation, | CC | disease as well as other diseases involving respiratory inflammation, |
| CC | cholesterol lowering agents or macrolide-based antibiotics which are | CC | cholesterol lowering agents or macrolide-based antibiotics which are |
| CC | active against a variety of organisms, e.g., bacteria, including | CC | active against a variety of organisms, e.g., bacteria, including |
| CC | multi drug resistant pneumococci and other respiratory pathogens, as well | CC | multi drug resistant pneumococci and other respiratory pathogens, as well |
| CC | as viral parasite pathogens, or as crop produced agents (e.g., | CC | as viral parasite pathogens, or as crop produced agents (e.g., |
| CC | inhibitors of insecticides), or as expression of polypeptides in plants. | CC | inhibitors of insecticides), or as expression of polypeptides in plants. |
| CC | Sequences AAZ87297-287332 represent macrolide biosynthetic genes from | CC | Sequences AAZ87297-287332 represent macrolide biosynthetic genes from |
| CC | Streptomyces venezuelae ATCC 15439, which encode proteins | CC | Streptomyces venezuelae ATCC 15439, which encode proteins |
| CC | AAV7190-V77197. | CC | AAV7190-V77197. |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
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| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; |
| CC | XX | CC | XX |
| CC | XX | CC | XX |
| CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 G; 587 T; 0 other; | CC | Sequence 4689 (bp): 648 A; 1882 G; 1572 |

the Nutritional Supplementation of the Infant with a Cow Milk Allergy

Natural radioactivity is present in the system base, quartz, talc, and in the fluid. The total activity of the hydrothermal system is 1000 Bq per gramme of quartz. The fluid is dominated by sodium and potassium. The fluid is a high temperature, low pressure fluid.

Photomicrographs of the tissue sections were taken with a Zeiss microscope.

$$S_{\text{eff}} = \int d^4x \sqrt{-g} \left[\frac{1}{2} R - \frac{1}{2} (\partial_\mu \phi)^2 - V(\phi) \right]$$
$$y_1, y_2, \dots, y_n =$$

1 MAY 1996

$$\frac{d}{dt} \int_{\mathbb{R}^d} \rho(x) dx = 0, \quad \frac{d}{dt} \int_{\mathbb{R}^d} \rho(x) x dx = 0, \quad \frac{d}{dt} \int_{\mathbb{R}^d} \rho(x) x^2 dx = 0,$$
[illegible][illegible]

19 MAY 1964

1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
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 12. *Chlorophyll l* (Chl *l*)
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 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
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 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
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 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
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 130. *Chlorophyll ayz* (Chl *ayz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*

$$\begin{array}{ccccccc} \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} & \xrightarrow{\quad} & \mathbb{Z} \end{array}$$
$$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} = \frac{1}{2} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} = \frac{1}{2} \begin{pmatrix} 2 & 0 \\ 0 & 2 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = I_2$$

| Symbol | Definition | Units |
|--------------|--------------------------|-----------------------------------|
| \mathbf{N} | Number of particles | - |
| \mathbf{W} | Weight | - |
| \mathbf{Z} | Atomic number | - |
| \mathbf{A} | Mass number | - |
| \mathbf{E} | Energy | MeV |
| \mathbf{F} | Force | N |
| \mathbf{G} | Gravitational constant | m ³ /kg s ² |
| \mathbf{H} | Planck constant | J s |
| \mathbf{I} | Current | A |
| \mathbf{J} | Momentum current density | N/m ² |
| \mathbf{K} | Boltzmann constant | J/K |
| \mathbf{L} | Length | m |
| \mathbf{M} | Mass | kg |
| \mathbf{N} | Number of particles | - |
| \mathbf{O} | Origin | - |
| \mathbf{P} | Momentum | kg m/s |
| \mathbf{Q} | Heat | J |
| \mathbf{R} | Radius | m |
| \mathbf{S} | Entropy | J/K |
| \mathbf{T} | Temperature | K |
| \mathbf{U} | Internal energy | J |
| \mathbf{V} | Volume | m ³ |
| \mathbf{W} | Work | J |
| \mathbf{X} | Distance | m |
| \mathbf{Y} | Distance | m |
| \mathbf{Z} | Distance | m |

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate. The concentration of the spores was 10⁴, 10⁵, 10⁶, 10⁷, 10⁸, 10⁹, 10¹⁰, 10¹¹, 10¹², 10¹³, 10¹⁴, 10¹⁵, 10¹⁶, 10¹⁷, 10¹⁸, 10¹⁹, 10²⁰, 10²¹, 10²², 10²³, 10²⁴, 10²⁵, 10²⁶, 10²⁷, 10²⁸, 10²⁹, 10³⁰, 10³¹, 10³², 10³³, 10³⁴, 10³⁵, 10³⁶, 10³⁷, 10³⁸, 10³⁹, 10⁴⁰, 10⁴¹, 10⁴², 10⁴³, 10⁴⁴, 10⁴⁵, 10⁴⁶, 10⁴⁷, 10⁴⁸, 10⁴⁹, 10⁵⁰, 10⁵¹, 10⁵², 10⁵³, 10⁵⁴, 10⁵⁵, 10⁵⁶, 10⁵⁷, 10⁵⁸, 10⁵⁹, 10⁶⁰, 10⁶¹, 10⁶², 10⁶³, 10⁶⁴, 10⁶⁵, 10⁶⁶, 10⁶⁷, 10⁶⁸, 10⁶⁹, 10⁷⁰, 10⁷¹, 10⁷², 10⁷³, 10⁷⁴, 10⁷⁵, 10⁷⁶, 10⁷⁷, 10⁷⁸, 10⁷⁹, 10⁸⁰, 10⁸¹, 10⁸², 10⁸³, 10⁸⁴, 10⁸⁵, 10⁸⁶, 10⁸⁷, 10⁸⁸, 10⁸⁹, 10⁹⁰, 10⁹¹, 10⁹², 10⁹³, 10⁹⁴, 10⁹⁵, 10⁹⁶, 10⁹⁷, 10⁹⁸, 10⁹⁹, 10¹⁰⁰, 10¹⁰¹, 10¹⁰², 10¹⁰³, 10¹⁰⁴, 10¹⁰⁵, 10¹⁰⁶, 10¹⁰⁷, 10¹⁰⁸, 10¹⁰⁹, 10¹¹⁰, 10¹¹¹, 10¹¹², 10¹¹³, 10¹¹⁴, 10¹¹⁵, 10¹¹⁶, 10¹¹⁷, 10¹¹⁸, 10¹¹⁹, 10¹²⁰, 10¹²¹, 10¹²², 10¹²³, 10¹²⁴, 10¹²⁵, 10¹²⁶, 10¹²⁷, 10¹²⁸, 10¹²⁹, 10¹³⁰, 10¹³¹, 10¹³², 10¹³³, 10¹³⁴, 10¹³⁵, 10¹³⁶, 10¹³⁷, 10¹³⁸, 10¹³⁹, 10¹⁴⁰, 10¹⁴¹, 10¹⁴², 10¹⁴³, 10¹⁴⁴, 10¹⁴⁵, 10¹⁴⁶, 10¹⁴⁷, 10¹⁴⁸, 10¹⁴⁹, 10¹⁵⁰, 10¹⁵¹, 10¹⁵², 10¹⁵³, 10¹⁵⁴, 10¹⁵⁵, 10¹⁵⁶, 10¹⁵⁷, 10¹⁵⁸, 10¹⁵⁹, 10¹⁶⁰, 10¹⁶¹, 10¹⁶², 10¹⁶³, 10¹⁶⁴, 10¹⁶⁵, 10¹⁶⁶, 10¹⁶⁷, 10¹⁶⁸, 10¹⁶⁹, 10¹⁷⁰, 10¹⁷¹, 10¹⁷², 10¹⁷³, 10¹⁷⁴, 10¹⁷⁵, 10¹⁷⁶, 10¹⁷⁷, 10¹⁷⁸, 10¹⁷⁹, 10¹⁸⁰, 10¹⁸¹, 10¹⁸², 10¹⁸³, 10¹⁸⁴, 10¹⁸⁵, 10¹⁸⁶, 10¹⁸⁷, 10¹⁸⁸, 10¹⁸⁹, 10¹⁹⁰, 10¹⁹¹, 10¹⁹², 10¹⁹³, 10¹⁹⁴, 10¹⁹⁵, 10¹⁹⁶, 10¹⁹⁷, 10¹⁹⁸, 10¹⁹⁹, 10²⁰⁰, 10²⁰¹, 10²⁰², 10²⁰³, 10²⁰⁴, 10²⁰⁵, 10²⁰⁶, 10²⁰⁷, 10²⁰⁸, 10²⁰⁹, 10²¹⁰, 10²¹¹, 10²¹², 10²¹³, 10²¹⁴, 10²¹⁵, 10²¹⁶, 10²¹⁷, 10²¹⁸, 10²¹⁹, 10²²⁰, 10²²¹, 10²²², 10²²³, 10²²⁴, 10²²⁵, 10²²⁶, 10²²⁷, 10²²⁸, 10²²⁹, 10²³⁰, 10²³¹, 10²³², 10²³³, 10²³⁴, 10²³⁵, 10²³⁶, 10²³⁷, 10²³⁸, 10²³⁹, 10²⁴⁰, 10²⁴¹, 10²⁴², 10²⁴³, 10²⁴⁴, 10²⁴⁵, 10²⁴⁶, 10²⁴⁷, 10²⁴⁸, 10²⁴⁹, 10²⁵⁰, 10²⁵¹, 10²⁵², 10²⁵³, 10²⁵⁴, 10²⁵⁵, 10²⁵⁶, 10²⁵⁷, 10²⁵⁸, 10²⁵⁹, 10²⁶⁰, 10²⁶¹, 10²⁶², 10²⁶³, 10²⁶⁴, 10²⁶⁵, 10²⁶⁶, 10²⁶⁷, 10²⁶⁸, 10²⁶⁹, 10²⁷⁰, 10²⁷¹, 10²⁷², 10²⁷³, 10²⁷⁴, 10²⁷⁵, 10²⁷⁶, 10²⁷⁷, 10²⁷⁸, 10²⁷⁹, 10²⁸⁰, 10²⁸¹, 10²⁸², 10²⁸³, 10²⁸⁴, 10²⁸⁵, 10²⁸⁶, 10²⁸⁷, 10²⁸⁸, 10²⁸⁹, 10²⁹⁰, 10²⁹¹, 10²⁹², 10²⁹³, 10²⁹⁴, 10²⁹⁵, 10²⁹⁶, 10²⁹⁷, 10²⁹⁸, 10²⁹⁹, 10³⁰⁰, 10³⁰¹, 10³⁰², 10³⁰³, 10³⁰⁴, 10³⁰⁵, 10³⁰⁶, 10³⁰⁷, 10³⁰⁸, 10³⁰⁹, 10³¹⁰, 10³¹¹, 10³¹², 10³¹³, 10³¹⁴, 10³¹⁵, 10³¹⁶, 10³¹⁷, 10³¹⁸, 10³¹⁹, 10³²⁰, 10³²¹, 10³²², 10³²³, 10³²⁴, 10³²⁵, 10³²⁶, 10³²⁷, 10³²⁸, 10³²⁹, 10³³⁰, 10³³¹, 10³³², 10³³³, 10³³⁴, 10³³⁵, 10³³⁶, 10³³⁷, 10³³⁸, 10³³⁹, 10³⁴⁰, 10³⁴¹, 10³⁴², 10³⁴³, 10³⁴⁴, 10³⁴⁵, 10³⁴⁶, 10³⁴⁷, 10³⁴⁸, 10<

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0
 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85 0.90 0.95 1.00

[illegible][illegible][illegible][illegible][illegible][illegible]

| Variable | Mean | SD | Min | Max |
|------------------------------------------------------------|------|------|------|------|
| Age | 38.5 | 10.2 | 25 | 55 |
| Gender | 0.5 | 0.5 | 0 | 1 |
| Marital status | 0.7 | 0.5 | 0 | 1 |
| Education | 12.5 | 1.5 | 10 | 15 |
| Income | 1500 | 500 | 1000 | 2000 |
| Health status | 0.8 | 0.4 | 0 | 1 |
| Smoking status | 0.3 | 0.5 | 0 | 1 |
| Alcohol consumption | 0.2 | 0.4 | 0 | 1 |
| Exercise frequency | 0.5 | 0.5 | 0 | 1 |
| Stress level | 0.6 | 0.5 | 0 | 1 |
| Depression score | 0.4 | 0.5 | 0 | 1 |
| Life satisfaction | 0.7 | 0.5 | 0 | 1 |
| Quality of life | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization | 0.6 | 0.5 | 0 | 1 |
| Health insurance status | 0.9 | 0.3 | 0 | 1 |
| Healthcare access | 0.7 | 0.5 | 0 | 1 |
| Healthcare cost | 1000 | 300 | 700 | 1300 |
| Healthcare quality | 0.8 | 0.4 | 0 | 1 |
| Healthcare satisfaction | 0.7 | 0.5 | 0 | 1 |
| Healthcare utilization frequency | 0.5 | 0.5 | 0 | 1 |
| Healthcare utilization cost | 500 | 150 | 350 | 650 |
| Healthcare utilization quality | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization satisfaction | 0.7 | 0.5 | 0 | 1 |
| Healthcare utilization frequency cost | 250 | 75 | 175 | 325 |
| Healthcare utilization frequency quality | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization frequency satisfaction | 0.7 | 0.5 | 0 | 1 |
| Healthcare utilization cost quality | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization cost satisfaction | 0.7 | 0.5 | 0 | 1 |
| Healthcare utilization quality satisfaction | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization frequency cost quality | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization frequency cost satisfaction | 0.7 | 0.5 | 0 | 1 |
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| Healthcare utilization quality frequency cost satisfaction | 0.7 | 0.5 | 0 | 1 |
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| Healthcare utilization frequency quality cost satisfaction | 0.8 | 0.4 | 0 | 1 |
| Healthcare utilization frequency quality cost satisfaction | 0.7 | 0.5 | 0 | 1 |
| Healthcare utilization cost frequency quality satisfaction | 0. | | | |

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible][illegible]

Mathematics

[illegible][illegible][illegible][illegible]
$$\frac{\Lambda\Lambda^{\dagger}(t, t_0)}{\Lambda\Lambda^{\dagger}(t_0, t_0)} = \exp\left(-\int_{t_0}^t \Lambda\Lambda^{\dagger} dt\right) = \exp\left(-\int_{t_0}^t \Lambda\Lambda^{\dagger} dt\right)$$

$\Delta \chi^2_{\text{min}}$

1. *Chlorophyll a* (Chl *a*)

[illegible]

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